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Polymer Technologies

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Product Name:

American Safety Tech. MS-7CZ / HARDENER (AST)

MSDS Manufacturer Number:

Manufacturer Name: Address:

ITW Polymer Technologies 130 Commerce Drive

Montgomeryville, PA 18936

General Phone Number: Emergency Phone Number:

(215) 855-8450 (215) 855-8450

CHEMTREC:

For emergencies in the US, call CHEMTREC: 800-424-9300

MSDS Creation Date:

06/15/2009

MSDS Revision Date: GHS Class:

06/10/2012

Flammable Liquid, Category 4 Eye Irritant, Category 2B Skin Irritant, Category 2 Skin Sensitizer, Category 1A

Hazardous to the aquatic environment



* Chronic Health Effects:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name CAS# Ingredient Percent
Polyamidoamine 68443-08-3 5 - 10 by weight
Methyl normal amyl ketone 110-43-0 5 - 10 by weight
Solvent naphtha, petroleum, light aromatic 64742-95-6 5 - 10 by weight
Polyamide No data 30 - 60 by weight
Amidoamine resin 68443-08-3 1 - 5 by weight
1-methoxy-2-propanol 107-98-2 10 - 30 by weight
1,2,4-trimethylbenzene 95-63-6 1 - 5 by weight

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview:

DANGER! Flammable. Severe Irritant. Harmful.

Route of Exposure:

Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects: Eye:

Can cause severe eye irritation and burns. Eye contact may cause permanent

damage or blindness.

Skin:

Causes severe skin irritation. May cause permanent skin damage.

Inhalation:

Vapor or mist may cause severe respiratory system irritation.

Ingestion:

Harmful if swallowed May be fatal if swallowed and enters airways Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and

abdominal pain.

Chronic Health Effects:

Harmful if inhaled Prolonged or repeated contact may cause skin irritation. May cause cancer

Signs/Symptoms: Target Organs:

Overexposure may cause headaches and dizziness. Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing Conditions:

None generally recognized.

SECTION 4: FIRST AID MEASURES

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get

immediate medical attention.

Skin Contact:

Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while

removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration or give

oxygen by trained personnel. Seek immediate medical attention.

Ingestion:

If swallowed, do NOT induce vomiting. Call a physician or poison control center

immediately. Never give anything by mouth to an unconscious person.

Other First Aid:

Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties:

Flammable liquid.

Flash Point:

94 °F

Auto Ignition Temperature:

Not determined.

Lower Flammable/Explosive Limit: Not determined.

Upper Flammable/Explosive Limit: Not determined.

Fire Fighting Instructions:

Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space

without full protective gear. If possible, contain fire run-off water.

Extinguishing Media:

Use carbon dioxide (CO2) or dry chemical when fighting fires involving this

Protective Equipment:

As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH

(approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personnel Precautions:

Evacuate area and keep unnecessary and unprotected personnel from entering

the spill area.

Environmental Precautions:

Avoid runoff into storm sewers, ditches, and waterways.

Spill Cleanup Measures:

Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush

spill area with soap and water to remove trace residue.

Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back. Ventilate area. Use proper personal protective equipment as listed in

Other Precautions:

Pump or shovel to storage/salvage vessels.

SECTION 7: HANDLING and STORAGE

Handling:

Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without

proper cleaning or reconditioning.

Storage:

Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use. Do not store in reactive metal containers. Keep away

from acids, oxidizers.

Special Handling Procedures:

Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product. Hazardous liquid or vapor

residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.

Hygiene Practices:

Wash thoroughly after handling.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Eve/Face Protection:

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard

EN 166.

Skin Protection Description:

Wear appropriate protective gloves and other protective apparel to prevent skin

contact. Consult manufacturer's data for permeability data

Respiratory Protection:

A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective:

Facilities storing or utilizing this material should be equipped with an eyewash

and a deluge shower safety station.

EXPOSURE GUIDELINES

Methyl normal amyl ketone:

Guideline ACGIH:

50 ppm TLV-TWA: 50 ppm

Guideline OSHA:

100 ppm

PEL-TWA: 100 ppm

1-methoxy-2-propanol:

Guideline ACGIH:

100 ppm

TLV-STEL: 150 ppm TLV-TWA: 100 ppm

1,2,4-trimethylbenzene:

Guideline ACGIH:

25 ppm

TLV-TWA: 25 ppm

Notes:

Only established PEL and TLV values for the ingredients are listed.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:

Liquid.

Color:

Amber.

Boiling Point:

248°F

Melting Point:

Not determined.

Vapor Density: Vapor Pressure: 3.12 12.5 mmHg

Evaporation Rate:

0.83

pH:

Not determined.

Molecular Formula: Molecular Weight:

Mixture Mixture

Flash Point:

94 °F

Auto Ignition Temperature:

Not determined.

VOC Content:

2 lbs/gal (250 g/l)

SECTION 10: STABILITY and REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Hazardous Polymerization:

Not reported.

Conditions to Avoid:

Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and

oxidizing conditions.

Incompatible Materials:

Oxidizing agents. Strong acids and alkalis.

SECTION 11: TOXICOLOGICAL INFORMATION

Methyl normal amyl ketone:

RTECS Number:

MJ5075000

Skin:

Administration onto the skin - Rabbit LD50: 12600 uL/kg [Details of toxic effects

not reported other than lethal dose value]

Administration onto the skin - Rabbit Open irritation test: 14 mg/24H (RTECS) Oral - Rat LD50: 1670 mg/kg [Details of toxic effects not reported other than

Ingestion:

lethal dose value]

Oral - Mouse LD50: 730 mg/kg [Details of toxic effects not reported other than

lethal dose value]

Oral - Rat LD50: 1600 mg/kg [Behavioral - Ataxia Lungs, Thorax, or Respiration

Respiratory depression] (RTECS)

Solvent naphtha, petroleum, light aromatic:

RTECS Number:

WF3400000

Eye:

Eye - Rabbit Standard Draize test.: 100 uL/24H [mild] (RTECS)

Ingestion:

Oral - Rat LD50: 8400 mg/kg [Behavioral - Somnolence (general depressed activity) Behavioral - Tremor Lungs, Thorax, or Respiration - Other changes] Oral - LD50: >2150 mg/kg [Behavioral - Food intake (animal) Nutritional and

Gross Metabolic - Weight loss or decreased weight gain] (RTECS)

1-methoxy-2-propanol:

RTECS Number:

UB7700000

Eye:

Eye - Rabbit Standard Draize test.: 500 mg/24H (RTECS)

Skin:

Administration onto the skin - Rabbit LD50: 13 gm/kg [Details of toxic effects

not reported other than lethal dose value]

Administration onto the skin - Rabbit Open irritation test: 500 mg (RTECS) Inhalation - Rat LC50: 10000 ppm/5H [Details of toxic effects not reported other

than lethal dose value] (RTECS)

Inhalation: Ingestion:

Oral - Rat LD50: 6600 mg/kg [Brain and Coverings - Other degenerative changes Behavioral - General anesthetic Lungs, Thorax, or Respiration -

Dvspnea1

Oral - Mouse LD50: 11700 mg/kg [Behavioral - Convulsions or effect on seizure threshold Behavioral - Ataxia Lungs, Thorax, or Respiration - Dyspnea]

Oral - LD50: 5 gm/kg [Details of toxic effects not reported other than lethal dose

value1

Oral - Rabbit LD50: 5700 mg/kg [Details of toxic effects not reported other than

lethal dose value] (RTECS)

1,2,4-trimethylbenzene:

RTECS Number:

DC3325000

Inhalation:

Inhalation - Rat LC50: 18000 mg/m3/4H [Details of toxic effects not reported

other than lethal dose value] (RTECS)

Indestion:

Oral - Rat LD50: 5 gm/kg [Details of toxic effects not reported other than lethal

dose value1

Oral - Mouse LD50: 6900 mg/kg [Details of toxic effects not reported other than

lethal dose value1 (RTECS)

SECTION 12: ECOLOGICAL INFORMATION

No ecotoxicity data was found for the product.

Environmental Fate:

No environmental information found for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the

classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local

guidelines.

RCRA Number:

D001

Important Disposal Information:

DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or

waste in a sealed, water-filled, metal container.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name:

Paint

DOT UN Number: DOT Hazard Class: UN1263 3

DOT Packing Group:

III

SECTION 15: REGULATORY INFORMATION

Polyamidoamine:

TSCA Inventory Status:

Listed

Canada DSL:

Listed

Methyl normal amyl ketone:

TSCA Inventory Status:

Listed

Massachusetts:

Listed: Massachusetts Oil and Hazardous List

Pennsylvania: Canada DSL:

Listed Listed

Solvent naphtha, petroleum, light aromatic:

TSCA Inventory Status:

Listed

Canada DSL:

Listed

<u>Amidoamine resin</u>: TSCA Inventory Status:

Canada DSL:

Listed Listed

1-methoxy-2-propanol:

Listed

TSCA Inventory Status: Massachusetts:

Listed: Massachusetts Oil and Hazardous List

Pennsylvania: Canada DSL:

Listed Listed

1,2,4-trimethylbenzene:

TSCA Inventory Status:

Listed

SARA:

EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.

New Jersey:

Listed: NJ Hazardous List; Substance Number: 2716

Massachusetts:

Listed: Massachusetts Oil and Hazardous List

Pennsylvania: Canada DSL:

Listed

Safety Phrase:

Listed

Risk Phrases: R10 - Flammable.; R22 - Harmful if swallowed.; R36/37/38 - Irritating to eyes,

respiratory system and skin.

S16 - Keep away from sources of ignition - No smoking.; S51 - Use only in well ventilated areas.; S37/39 - Wear suitable gloves and eye/face protection.;

S24/25 - Avoid contact with skin and eyes.

Canadian Regulations.

WHMIS Hazard Class(es): B2, D2A

All components of this product are on the Canadian Domestic Substances List.

WHMIS Pictograms



SECTION 16: ADDITIONAL INFORMATION

Label Hazard Warning:

Flammable liquid and vapour

May be fatal if swallowed and enters airways

Harmful if swallowed

Harmful if Inhaled Causes skin irritation

May cause respiratory irritation

Causes serious eye irritation
Toxic to aquatic life with long lasting effects

May cause cancer

HMIS Fire Hazard: HMIS Health Hazard: 2 HMIS Reactivity: 1 HMIS Personal Protection: Х

MSDS Creation Date: 06/15/2009 MSDS Revision Date: 06/10/2012 MSDS Author: Actio Corporation

The Information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Disclaimer:

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